COASTAL AND MARINE BIOLOGY AND ECOLOGY (LM51)
(Lecce - Università degli Studi)

**Insegnamento** EXPERIMENTAL DESIGN AND METHODOLOGIES FOR MARINE BIOLOGY

GenCod A005730

**Insegnamento in inglese** EXPERIMENTAL DESIGN AND METHODOLOGIES FOR MARINE BIOLOGY

**Settore disciplinare** BIO/05

**Corso di studi di riferimento** COASTAL AND MARINE BIOLOGY AND ECOLOGY

**Tipo corso di studi** Laurea Magistrale

**Crediti** 6.0

**Ripartizione oraria** Ore Attività frontale: 54.0

**Per immatricolati nel** 2020/2021

**Erogato nel** 2021/2022

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**BREVE DESCRIZIONE DEL CORSO**

The course will deal with the main techniques for studying the coastal marine environment through scuba diving and from the sea surface, on board of the research vessel Pelagia.

**PREREQUISITI**

No requirements are foreseen to attend the course and practicals on board of the R/V PELAGIA. A diving licence is required to attend underwater SCUBA diving practicals.

**OBIETTIVI FORMATIVI**

The aim is to provide both theoretical and practical basic knowledge on the techniques of studying the marine environment by means of a scientific diver or by sampling from sea surface on board of a research vessel.

**METODI DIDATTICI**

The course will be run by theoretical lessons (3 credits, 24 hours) and practical exercises in the field (3 credits, 30 hours).
The achievement of the credits attributed to teaching is obtained through a written test with five open-ended questions with different degrees of complexity, together with a qualitative assessment of the practical achievements (non sufficient, sufficient, good, excellent) for each student given by the teaching staff. This will evaluate the learning outcomes acquired by the student. The analysis of answers to the written test will be carried out by direct interview with the teacher. Upon motivated request of the student, the written test is completely replaced by a full oral exam. The final grade is expressed in thirtieths, with possible praise. For each given answer, the student will get up to 6 points, depending on the level of inclusivity and the supporting arguments provided by the answer. Any answer not given will equal to 0 points. To pass the exam it is necessary to obtain a minimum score of 18 points, equal to a grade of 18/30. If the exam is insufficient, or the final score is less than 18, the written test must be repeated. Following a double failure to pass the written test (due to insufficiency or non-acceptance of the grade obtained), the exam can only be taken by interview with the teacher. The attribution of the final score will be taken into account: of the level of theoretical and practical knowledge acquired (50%); the ability to apply the acquired knowledge (30%); autonomy of judgment (10%); of communication skills (10%).


Case studies:
Installation of anti-jellyfish nets
Monitoring colonial invertebrates: a case study with 10x10, 20x20 squares, visual collection (picking up).
Posidonia: counting and measuring shoots and leaves, lepidocronology, epiphyte coverage.
Definition and notes on the safety of scientific diving.
Microplastic sampling with screen – sorting

Gambi M.C., Dappiano M. 2004 (eds) “Mediterranean marine benthos: a manual of methods for its sampling and study” SIBM.